Claims

1. A sensor (10) for optical detection of foreign bodies, in particular raindrops, on a window, in particular on the windshield of a motor vehicle, having a sensor element (21) that can be coupled to the inside of the window, having at least one fastening device (16) to be fastened, preferably glued, to the window, and having a housing part (12) that contains at least the sensor element (21), where the sensor element (21) can be coupled to the window (18) by means of spring force, characterized in that the housing part (12) has at least one fastening part (14) attached to it, which can be brought into engagement with the fastening device (16) by means of clamping tension.

2. The sensor according to claim 1, characterized in that the sensor element (21) is affixed to the housing part (12).

3. The sensor according to one of claims 1 or 2, characterized in that two fastening parts (14) are disposed opposite each other on the housing part (12).

4. The sensor according to one of the preceding claims, characterized in that the at least one fastening device (16) has pins (20) for engaging with the at least one fastening part (14).

5. The sensor according to claim 4, characterized in that the at least one fastening part (14) has recesses (29) for receiving the pins (20) in the installed position.

6. The sensor according to one of the preceding claims, characterized in that the at least one fastening part (14) is attached to the housing part (12) in a movable, preferably pivotable, fashion and has elastic properties.

7. The sensor according to one of the preceding claims, characterized in that the at least one fastening part (14) can be brought into engagement with the at least one fastening device (16) by means of an oblique plane (28).

8. The sensor according to one of the preceding claims, characterized in that the at least one fastening part (14) has an oblong formation (24) on its exterior.

9. The sensor according to one of the preceding claims, characterized in that the at least one fastening part (14) is a stamped and bent part.

10. The sensor according to one of claims 1 to 8, characterized in that the at least one fastening part (14) is an injection molded plastic part.

11. The sensor according to one of the preceding claims, characterized in that the fastening device (16) is embodied as being of one piece.

12. The sensor according to one of the preceding claims, characterized in that the housing part (12) can be inserted in a collar-like fashion into the fastening device (16).

13. The sensor according to one of the preceding claims, characterized in that the sensor element (21) is fastened in the housing part (12) by being clipped into it.

14. A sensor (10) for optical detection of foreign bodies, in particular raindrops, on a window, in particular on the windshield of a motor vehicle, having a sensor element (21) that can be coupled to the inside of the window, having at least one fastening device (16) to be fastened, preferably glued, to the window, and having a housing part (12) that contains at least the sensor element (21), where the sensor element (21) can be coupled to the window (18) by means of spring force, characterized by means of a design that is comprised of at least 3 components, in particular an optical body with a coupling

medium, a plate with at least one transmitter and receiver, and a housing part (12) with the fastening parts (14).